INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/003811

	CATION OF SUBJECT MATTER C02F1/78, C01B13/10, C02F1/3	6, 1/46	
According to Inte	ernational Patent Classification (IPC) or to both nationa	al classification and IPC	
B. FIELDS SE	ARCHED		
Minimum docum Int . Cl ⁷	nentation searched (classification system followed by cl CO2F1/78, CO1B13/10, CO2F1/36	lassification symbols) 6, 1/46	
Jitsuyo Kokai Ji	itsuyo Shinan Koho 1971-2005 To	tsuyo Shinan Toroku Koho oroku Jitsuyo Shinan Koho	1996-2005 1994-2005
	rase consulted during the international search (name of FILE (JOIS), WPI (DIALOG)	data base and, where practicable, search to	erms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
х		OO), 1436229 A1 2005-502456 A	1-9
х	JP 2002-307053 A (Daikin Ind 22 October, 2002 (22.10.02), Claims; Par. No. [0026] (Family: none)	ustries, Ltd.),	1-8,10
х	JP 2001-252664 A (Kabushiki 18 September, 2001 (18.09.01) Claims; Par. Nos. [0014], [00 (Family: none)	,	1-8,10
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	<u> </u>
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international		"T" later document published after the inte date and not in conflict with the applica- the principle or theory underlying the i "X" document of particular relevance; the c	ation but cited to understand nvention claimed invention cannot be
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 28 April, 2005 (28.04.05)		Date of mailing of the international search report 17 May, 2005 (17.05.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No. Form PCT/ISA/21	0 (second sheet) (January 2004)	Telephone No.	
	· · · · · · · · · · · · · · · · · · ·		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/003811

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 9024/1984(Laid-open No. 122337/1985) (Masuo YAMAMOTO), 17 August, 1985 (17.08.85), Claims; page 3, line 8 to page 4, line 16 (Family: none)	1-8,10,12
X	JP 2002-543960 A (CANZONE LTD.), 24 December, 2002 (24.12.02), Claims; Par. Nos. [0056], [0066] & WO 2000/67886 A & CA 2271170 A & AU 4388700 A & EP 1173271 A1 & US 6209855 B1	1,2
Y	Mizuki GOTO et al., "Nanobubble no Hassei Tokusei ni Kansuru Kenkyu", Dai 40 Kai Nippon Dennetsu Symposium Koen Ronbunshu Vol.II, pages 359 to 360, 2003, full text	1,2
Y	JP 2003-334548 A (National Institute of Advanced Industrial Science and Technology), 25 November, 2003 (25.11.03), Claims; table 4 (Family: none)	1-8,10
Y	JP 10-251883 A (Kabushiki Kaisha VMC), 22 September, 1998 (22.09.98), Claims (Family: none)	1-8,10
A	Jong-Yun Kim et al., Zeta Potential of Nanobubbles Generated by Ultrasonication in Aqueous Alkyl Polyglycoside Solutions, Journal of Colloid and Interface Science, 223, 2000, full text	1-8,10
A	US 2003/0164306 Al (Senkiw), 04 September, 2003 (04.09.03), Claims & WO 2003/72507 Al	1,2
	·	